

INFORMATION REPORT

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COUNTRY Czechoslovakia

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SUBJECT Tesla Works, National Corporation:
Organization and List of Plants

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^CSUPPLEMENT TO

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is one of the largest firms in Czechoslovakia. It produces all types of low-voltage equipment, radio sets, radio tubes, and electric bulbs. The main offices are in the former Phillips building on Karlovo namesti, Prague (051/L 78 - L 88). Administratively the firm is divided into two main departments, Production and Development.

2. The Production Department is divided into branches each of which is headed by a branch manager who controls the planning and selling phases of his branch. Production at Tesla is part of the Five-Year Plan, and according to published reports has reached 100 percent of its target. The quality of the finished products, however, is not good.
3. Shortages of materials are creating bottlenecks in production. There is a great shortage in colored metals, but the greatest lack is in special high quality alloys used in making transformer sheets, and circular cores for coils. German material, left over from the reserves of the Siemens company, is still being used but will soon be exhausted. Permalloy is in short supply, but the Czechoslovak Metallurgical Works are experimenting to see whether it can be produced in Czechoslovakia. So far the results have been negative. England is the main source of permalloy and if she discontinued exporting this alloy to Czechoslovakia it is doubtful that production of transformer sheets and coils could be continued.
4. The Development Department, with central offices in the Mikrofona buildings at Prague-Strasnice, is the technical brains of the corporation. Laboratories are located in the

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telecommunication machinery at Vrchlabi research on vacuum technique,
and at Prague-Hloubetin research in electronics.

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constructed, and tested. A large staff of engineers and technicians have at their disposal a vast library culled from western sources, and the research files of the former Siemens company. The Siemens archives contain data for the production and design of transmitters, transformers, coils, measuring instruments, and transmitter stations. As a result of this body of technical information available to the Tesla company, Tesla production is based mainly on Siemens products.

6. The Development Department consists of five divisions:

- a. Physical research division, which works on theoretical mathematical and physical problems.
- b. Receivers division, where receivers, especially for aircraft, are constructed.
- c. Transmitter division, where research on theoretical and practical problems of ultra-short waves is done.

[REDACTED] conducts research on gramophones

- e. Telecommunication division, with laboratories at Pardubice, Prague-Karlín, and Prague-Strasnice. The Pardubice laboratory works on double-range telephony and ultra-

[REDACTED] wire amplifiers in a range of 300-3,400 cps, amplifiers carrier systems in a range of 12-108 kc/s, and an impulse

7. [REDACTED] devices already developed by the Tesla Development Department:

- a. A device has been developed to tap telephone calls and to transcribe the conversations on records. As many as 20 calls at a time can be recorded on two discs. This machine is an exact copy of one developed by Siemens.
- b. Communication by means of a coaxial cable is being studied. A plan has been conceived to construct a magistral across all of Czechoslovakia, but the research on this project has just begun. Step-up transformer stations will have to be built along the route.
- c. A network making use of a carrier system (Standard type SOJ 12, Siemens MG 15 and BOA 12) is to be built in Bohemia and Moravia with connections leading into all of the town networks. Dialing of long distance telephone calls will be possible.
- d. At Pardubice, Tesla engineers are trying to improve the French-type ultra-short wave equipment. Test equipment is being used between the sending station on the Petrin hill in Prague and a receiving station on the Snezka mountain (P50/N 26) in the Krkonose Mountains. The telephone systems of Prague and Trutnov (051/G 74) have been connected to this net, and dialing is automatic between these two points. It is planned to extend this net into Poland.

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technicians who work on specialized problems.

25X1X [redacted] is working on aircraft landing equipment, but his progress has been so slow that production will not be started until 1951.

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- f. Work is going forward on a sending and receiving set for communication between aircraft. The set is called "skrivanek" (nightingale).

8. Prague Tesla factories and their locations are:

- a. Prague-Hloubetin, Podebradska ulice 186, Workshop I (formerly Phillips). Produces commercial radio receivers trademarked Kongres, Kvinta, Melodik, Talisman, Romance, and Rytmus.
- b. Prague-Hloubetin, Workshop II (formerly Phillips). Produces radio tubes for commercial receivers and for technical purposes.*
- c. Prague-Hloubetin, Workshop III (formerly Always). Produces and develops miscellaneous electrical parts such as condensers and resistors.
- d. Prague-Vrsovice. Produces all types of transmitters.
- e. Prague-Karlin (formerly Siemens), Kralovska ulice 84-86. Produces telephone systems.
- f. Prague-Holesovice (formerly Osram). Produces electric light bulbs.
- g. Prague-Strasnice, No. 800 (formerly Mikrofona). Development laboratories are located here. In addition, this plant produces dial telephone sets, telephones used in mines, and "Pupin cases" (sid).
- h. Prague-Strasnice, No. 987 (formerly Sixka). This is a research and development center.
- i. Prague-Bechovice. Produces mechanical parts.

9. Tesla factories outside of Prague are:

- a. Pardubice (051/M 79) (formerly Telegrafia). Produces special radio sets, telephone exchanges, and telegraphic equipment. Research laboratories are also located here.
- b. Vrchlabi (Hohenelbe - 051/G 55) (formerly Lorenz, Berlin). Produces tubes and does research on tubes and vacuum techniques.

10. Minor Tesla factories outside of Prague are:

- a. Valasske Mezirici (P50/O 34) (formerly Mikrofona)
- b. Prelouc (051/M 58) (formerly Radiotechna)
- c. Brno (P50/N 40) (formerly Siemens)
- d. Liberec (051/G 16), Na rybnicku 6 (formerly Siemens)

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- [REDACTED]
- f. Bratislava (formerly Siemens)
 - g. Jablonec nad Nisou (051/G 26) (formerly Telegrafia)
 - h. Usti nad Labem (N51/F 44)
 - i. Nova Paka (051/G 53) (formerly Siemens-Halske)
 - j. Ostrava (P50/O 59), Nadrazni ulice 1 (formerly Siemens)
 - k. Lanskroun (P50/N 38), Nadrazni ulice 253-5 (formerly Siemens-Halske)
 - l. Liberec, Janova ulice 1 (formerly Modry Bod - Blaupunkt)
 - m. Sezemice (Sezemitz)**
 - n. Kutna Hora (Kutttenberg - 050/M 37)
 - o. Kolin (051/M 38).

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[REDACTED] Comment.

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* [REDACTED] following specifications for two types of pentode manufactured by the Prague-Hloubetin plant, Workshop II: (1) 220V, 15 mA, Vr-18V (sic), s-9.5 nA/V, Ri-0.5 MΩ; (2) 18-L-24, s-4.5 mA/V.

** Map Series G.S.G.S. 4346, Central Europe, 1:250,000, lists Sezemice (Sezemitz) near Pardubice (Pardubitz - 051/M 79) and Sezemice near Turnov (Turnau - 051/G 14).

Encl: 1 chart of Tesla research center at Prague-Strasnice

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Tesla Research Center at Prague-Strasnice

Fourth Floor

Third Floor

Acoustics	Acoustics	M a n a g e m e n t	
		O f f i c e s	
Telecommu- nication Laboratory	Measuring Instruments Chemical Laboratory	Workers' Council	Rectifiers
	Patents	Assembly	Radio
Amplifiers	Acoustics (Admin- istration)	Room	Antennas
Telegraphs and	Telegraphs	Telegraph and	Radio
Teletypes		Radio Sets	Radio
	Toilet		Toilet
Elevator		Elevator	
Elevator	Store Room	Elevator	Store Room
	Library and Archives		
Construction (Assembly) Room	Telegraphs		
	Telephones		
Pneumatic Post	Telecommu- nication (Adm.) Telephones		
	Impulse		
Telephones	Technics		

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